

Rolling Knolls Landfill Superfund SITE FIELD CHANGE REQUEST (FCR) FORM

Contract No.:		
REQUEST NO:	DATE:	06 07/ 10 06/2015
FCR TITLE:Existing Monitoring Well Analyses		

DESCRIPTION:

The Data Gaps Sampling and Analysis Plan (Data Gaps SAP) proposed three rounds of groundwater sampling. The first groundwater sampling event consists of sampling all existing permanent wells (MW-1 through MW-10 and X-1 through X-7) for full TCL/TAL parameters. The second groundwater sampling event includes sampling of all new monitoring wells (MW-11 through MW-20) for full TCL/TAL parameters, and resampling at selected existing monitoring wells as necessary depending on the results of the prior groundwater sampling events. The third groundwater sampling event consists of sampling all the new monitoring wells for full TCL/TAL, providing a second complete round of samples at these wells. The USEPA approved the Data Gaps SAP on November 18, 2014.

The first groundwater event was conducted December 8 through 12, 2014. Preliminary results were provided to USEPA in an Interim Tech Memo on February 17, 2015, and final validated results were provided on April 22, 2015. The second groundwater sampling event is currently scheduled for began June 22, 2015 through 26, 2015, and as planned, will include, all All of the newly-installed wells (MW-11 through MW-20) were sampled, with the exception of MW-13. The location proposed for MW-13 is inundated with water and will be replaced with pore-water sampling (see FCR-08), and selected other wells that have previously been sampled. This FCR identifies the previously sampledexisting monitoring wells that will be sampled as part of again in the second round of Data Gaps SAP groundwater sampling, and the analytical parameters for each of these wells.

REASON FOR DEVIATION:

The selection of analyses at existing wells is required as part of the second groundwater sampling event. No official deviation from the Data Gaps SAP has been made. This FCR is being submitted as a form of documentation for the analysis selection process.

Groundwater analytical results from the previous sampling events were evaluated for all permanent monitoring wells (MW-1 through MW-10 and X-1 through X-7). Based on these data <u>and discussions with USEPA</u>, <u>all certain-17</u> monitoring wells were identified for sampling during the second sampling event.

RECOMMENDED MODIFICATIONS:

Groundwater sampling results from the three previous sampling events were presented in the Interim Tech Memo (submitted February 17, 2015). Figure 1 from the Interim Tech Memo is attached for reference. Monitoring wells MW-1 through MW-10 and X-1 through X-7MW-3 and MW-7 are selected for sampling during the second groundwater sampling event, and samples will be analyzed for full TCL/TAL.as described below:

- MW-3: Confirmation of VOCs and pesticides
- MW-7: Confirmation of metals (filtered and unfiltered) and cyanide

A table summarizing the monitoring wells, the proposed analyte list, and additional rationale for sampling is



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attached to this FCR (Table 1).

Monitoring wells MW-1, MW-2, MW-4, MW-5, MW-6, MW-8, MW-9, MW-10, and X-1 through X-7 were not selected for additional sampling. The concentrations of certain metals in some wells in the landfill are above their NJDEP Groundwater Quality Criteria (GWQC). However, the concentrations are generally consistent in the previous three rounds of sampling, and no further sampling is needed at this time to characterize these constituents ingroundwater. No additional constituents were identified in these wells that exceed the NJDEP GWQC.

IMPACT ON PROJECT OBJECTIVES:

The selected wells meet the project objective of collecting groundwater samples to characterize constituent concentrations in groundwater at the landfill.

Dated Signatures: 607/1006/2015

(Field Team Leader)

607/1006/2015

(Project Manager)

Distribution:

T. Mitchell, EPA Remedial Project Manager Quality Assurance Coordinator RI Task Leader Project File

Table 1 Monitoring Well Analyses FCR-09 Rolling Knolls Landfill Superfund Site Chatham, New Jersey

XX7 11	,	New Jersey
Well Number	Laboratory Analyses	Rationale
MW-1	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.
MW-2	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.
MW-3	TCL/TAL parameters VOC, pesticides	Confirm concentrations of VOCs (benzene and 1,4-dioxane) and pesticides (alpha-, beta-, and delta-BHC). Additional data being collected to support future remedy selection
MW-4	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.
MW-5	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.
MW-6	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.
MW-7	TCL/TAL parametersTAL metals and cyanide (filtered and unfiltered)	Confirm concentrations of antimony, cadmium, lead, thallium, and zinc; evaluate whether they are dissolved or associated with turbidity. Additional data being collected to support future remedy selection
MW-8	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.
MW-9	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.
MW-10	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.
MW-11	TCL/TAL parameters	No sampling has been conducted at this well.
MW-12	TCL/TAL parameters	No sampling has been conducted at this well.
MW-13	TCL/TAL parametersWell location replaced with pore-water sampling	No sampling has been conducted at this well.
MW-14	TCL/TAL parameters	No sampling has been conducted at this well.
MW-15	TCL/TAL parameters	No sampling has been conducted at this well.
MW-16	TCL/TAL parameters	No sampling has been conducted at this well.
MW-17	TCL/TAL parameters	No sampling has been conducted at this well.
MW-18	TCL/TAL parameters	No sampling has been conducted at this well.
MW-19	TCL/TAL parameters	No sampling has been conducted at this well.
MW-20	TCL/TAL parameters	No sampling has been conducted at this well.
X-1	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.

X-2	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous sampling results are adequate.
X-3	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous
		sampling results are adequate.
X-4	TCL/TAL parameters No additional sampling proposed.	Additional data being collected to support future remedy selection Previous
		sampling results are adequate.
X-5	TCL/TAL parametersNo additional sampling proposed.	Additional data being collected to support future remedy selection Previous
		sampling results are adequate.
X-6	TCL/TAL parametersNo additional sampling proposed.	Additional data being collected to support future remedy selection Previous
		sampling results are adequate.
X-7	TCL/TAL parametersNo additional sampling proposed.	Additional data being collected to support future remedy selection Previous
		sampling results are adequate.

TCL/TAL – target compound list/target analyte list VOCs – volatile organic compound.

IMAGES:

PROJECTNAME: ----

JN = FOR ORGANICS THE ANALYSIS INDICATES THE PRESENCE OF A

ESTIMATED CONCENTRATION ONLY.

COMPOUND FOR WHICH THERE IS PRESUMPTIVE EVIDENCE TO MAKE A

TENTATIVE IDENTIFICATION. THE ASSOCIATED NUMERICAL VALUE IS AN

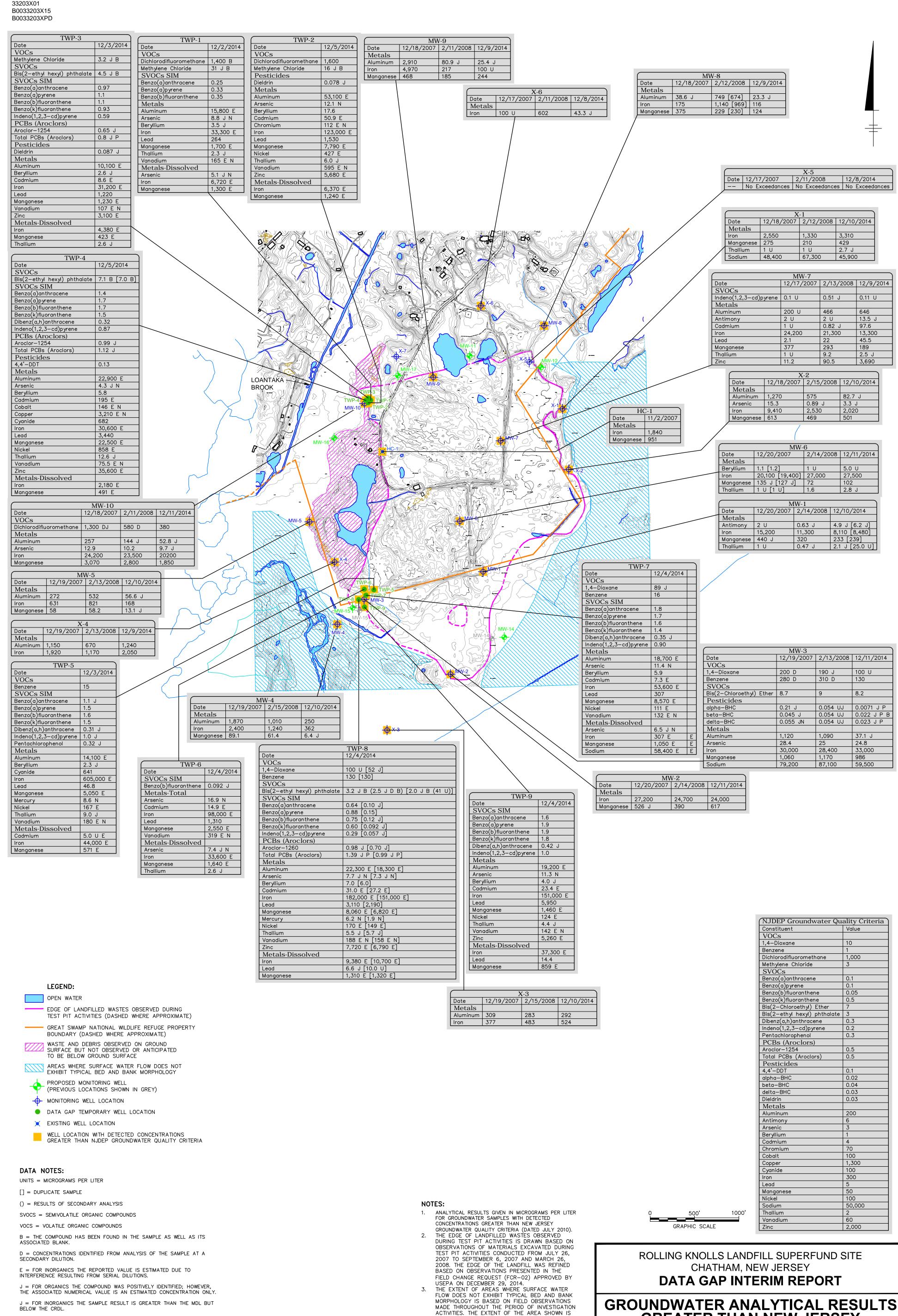
N = FOR INORGANICS THE SPIKED SAMPLE RECOVERY IS NOT WITHIN

U = THE COMPOUND WAS ANALYZED FOR BUT NOT DETECTED. THE

FOR DETECTED CONCENTRATIONS BETWEEN THE TWO COLUMNS.

ASSOCIATED VALUE IS THE COMPOUND QUANTITATION LIMIT.

P = DUAL COLUMN ANALYSIS RESULTED IN GREATER THAN 25% DIFFERENCE



APPROXIMATE.

VALIDATED.

6/30/06)

SOURCES:

NOT BE SAMPLED.

MONITORING WELL X-7 WAS DAMAGED AND COULD

DATA GAP ANALYTICAL RESULTS HAVE NOT BEEN

1. BASEMAP FROM JAMES M. STEWART INC.,

LAND SURVEYORS, PHILADELPHIA, PA.,

(ELECTRONIC FILE: 292406.DWG DATED:

GROUNDWATER ANALYTICAL RESULTS
GREATER THAN NEW JERSEY
GROUNDWATER QUALITY CRITERIA



FIGURE